

## Justification of Need

US 401 is a major north-south corridor in Franklin County, connecting the county seat of Louisburg with other municipalities, such as Raleigh and Warrenton. The facility is a vital artery in moving people and goods through the county and the state.

The facility type and cross-section of US 401 varies within the county. The existing cross-sections of US 401 within the segments are described below.

- Fox Park Road (SR 1700) to south of NC 39, Local ID: FRAN0001-H  
A four lane divided boulevard.
- South of NC 39 to NC 56/581, Local ID: FRAN0001-H  
A five lane major thoroughfare.
- NC 56/581 to East Noble Street, TIP No. R-3608  
A three lane major thoroughfare.
- East Noble Street in Louisburg to Warren County, TIP No. R-3608, Local ID: FRAN0002-H  
A two lane major thoroughfare.

Table 3 below displays the comparisons between the 2006 (or 2005) annual average daily traffic (AADT), the projected 2035 AADT, and the existing capacities of the facility are in vehicles per day (vpd). Since the Louisburg study started in 2006, 2005 AADT counts were used. Since the Franklin County study started in 2007, 2006 AADT counts were used. For comparison, the most current AADT counts have been added to this table.

**Table 3 – US 401 Volume and Capacity**

Project	Section (From - To)	2006 (2005) AADT	2012 AADT	2035 AADT	Current Capacity
FRAN0001-H	Louisburg municipal limits - east of Burke Drive	(17,000)	18,000	37,000	38,000*
FRAN0001-H	East of Burke Drive - NC 39	(16,000)	19,000	39,600	35,900*
FRAN0001-H	NC 39 - Tar River	(23,000)	23,000	49,000	35,900*
FRAN0001-H	Tar River - NC 56/NC 581	(20,000)	21,000	45,000	35,900*
FRAN0002-H	Main Street (SR 1229) - Dyking Road (SR 1235)	(11,000)	10,000	31,500	7,800*
FRAN0002-H	Dyking Road (SR 1235) - north of Moulton Road (SR 1414)	(8,600)	8,200	27,700	7,800*
FRAN0002-H	North of Moulton Road (SR 1414) - US 401/NC 39 split	6,400	6,700	16,000	12,000
FRAN0002-H	US 401/NC 39 split - Sutton Road (SR 1413)	2,900	2,800	6,000	9,100
FRAN0002-H	Sutton Road (SR 1413) - Tollie Road (SR 1401)	2,900	2,800	6,000	10,600
FRAN0002-H	Tollie Road (SR 1401) - Cheek's Quarter Road (SR 1405)	1,500	1,600	3,000	10,600
FRAN0002-H	Cheek's Quarter Road (SR 1405) - Warren County	1,600	1,400	3,000	10,600

\* LOS C – Capacities